

FHV 1US

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C.371**

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/445289

INTERNATIONAL APPLICATION

PCT/GB98/01619

INTERNATIONAL FILING DATE

03 June 1998 (03.06.98)

PRIORITY DATE CLAIMED

04 June 1997 (04.06.97)

TITLE OF INVENTION

**BACTERIAL PHEROMONES AND USES THEREFOR**

APPLICANT(S) FOR DO/EO/US

**Galina V. MUKAMOLOVA; Arseny S. KAPRELYANTS; Danielle I. YOUNG; Douglas B. KELL;  
and Michael YOUNG**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C.371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This express request to begin national examination procedures (35 U.S.C. 371 (f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371 (b) and PCT Articles 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau)  
**(72 sheets and 20 sheets of drawings);**
  - b. ☐ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ A translation of the International Application into English (35 U.S.C 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) **(unexecuted) (4 sheets);**
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11. to 16. below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included
13. ☒ A **FIRST** preliminary amendment **(9 sheets);**  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: **Transmittal Letter (2 sheets in duplicate); PCT Request (Form PCT/R/101) (6 sheets); PCT International Published Application (WO 98/55624) (with International Search Report attached); (75 sheets); PCT Notification of Transmittal of the International Preliminary Examination Report (Form PCT/IPEA/416) (8 sheets); Sequence Listing (31 sheets); Sequence Listing Diskette; Transmittal Letter for Diskette of Sequence Listing (1 sheet); Certificate of Express Mailing (1 sheet); and Return Postcard.**

U.S. APPLICATION NO. (if known, see 37 CFR 1.53) <b>09/445289</b>		INTERNATIONAL APPLICATION NO. <b>PCT/GB98/01619</b>		ATTORNEY'S DOCKET NO. <b>FHW-051US</b>																																																																							
17. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5) ) .(a/o November 1, 1999):</b> Search Report has been prepared by the EPO or JPO.....\$840 International preliminary examination fee paid to USPTO (37 CFR 1.482).....\$670 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)).....\$760 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$970 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4).....\$96  <div style="text-align: center;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>				CALCULATIONS PTO USE ONLY																																																																							
				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><b>\$840</b></div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">\$</div> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">CLAIMS</th> <th style="width:20%;">NUMBER FILED</th> <th style="width:20%;">NUMBER EXTRA</th> <th style="width:20%;">RATE</th> <th style="width:20%;"></th> <th style="width:20%;"></th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td style="text-align: center;">65 -20 =</td> <td style="text-align: center;">45</td> <td style="text-align: center;">X \$18.00</td> <td style="text-align: center;">\$810</td> <td></td> </tr> <tr> <td>Independent claims</td> <td style="text-align: center;">21 -3 =</td> <td style="text-align: center;">18</td> <td style="text-align: center;">X \$78.00</td> <td style="text-align: center;">\$1404</td> <td></td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td style="text-align: center;">+ 260.00</td> <td style="text-align: center;">\$--</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td style="text-align: center;"><b>\$3054</b></td> <td></td> </tr> <tr> <td colspan="4">Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28)</td> <td style="text-align: center;">\$--</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>SUBTOTAL =</b></td> <td style="text-align: center;"><b>\$3054</b></td> <td></td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td style="text-align: center;">\$--</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>TOTAL NATIONAL FEE =</b></td> <td style="text-align: center;"><b>\$3054</b></td> <td></td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td style="text-align: center;">\$--</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>TOTAL FEES ENCLOSED =</b></td> <td style="text-align: center;"><b>\$--</b></td> <td></td> </tr> <tr> <td colspan="4" rowspan="2"></td> <td style="text-align: center;">Amount to be: refunded</td> <td style="text-align: center;">\$</td> </tr> <tr> <td style="text-align: center;">charged</td> <td style="text-align: center;">\$</td> </tr> </tbody></table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			Total claims	65 -20 =	45	X \$18.00	\$810		Independent claims	21 -3 =	18	X \$78.00	\$1404		MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ 260.00	\$--		<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$3054</b>		Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28)				\$--		<b>SUBTOTAL =</b>				<b>\$3054</b>		Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$--		<b>TOTAL NATIONAL FEE =</b>				<b>\$3054</b>		Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$--		<b>TOTAL FEES ENCLOSED =</b>				<b>\$--</b>					
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- a. ☐ A check in the amount of \$\_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 12-0080 in the amount of \$3054 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-0080. A duplicate copy of this sheet is enclosed.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

**Anthony A. Laurentano, Esq.**  
**LAHIVE & COCKFIELD, LLP**  
 28 State Street  
 Boston, Massachusetts 02109  
 United States of America  
 (617)227-7400  
 Date: 03 December 1999

SIGNATURE

**Peter C. Lauro**

NAME

**32,360**

REGISTRATION NUMBER

430 700 PCT/PTO 03 DEC 1999  
09/445289

IN THE UNITED STATES PATENT DESIGNATED OFFICE (DO/US)  
(National Phase of International App.: PCT/GB98/01619)

In re the  
application of: **Galina V. MUKAMOLOVA et al.**

International Application No.: **PCT/GB98/01619**

International Filing Date: **03 June 1998**

U.S. Serial No.: **Not yet assigned**

Filed: **Herewith**

For: **BACTERIAL PHEROMONES  
AND USES THEREFOR**

Attorney Docket No.: **FHW-051US**

Assistant Commissioner for Patents  
BOX PCT  
Washington, D.C. 20231

Certification Under 37 CFR 1.10

I hereby certify that the attached:

Transmittal Letter (2 sheets in duplicate); Copy of the International Application as filed (72 sheets; 20 sheets drawings; and 31 sheets sequence listing); Preliminary Amendment (9 sheets); Declaration, Petition and Power of Attorney (unexecuted) (4 sheets); PCT Request (6 sheets); PCT International Published Application (WO 98/55624) (with International Search Report attached) (75 sheets); PCT Notification of Transmittal of the International Preliminary Examination Report (Form PCT/IPEA/416) (8 sheets); Sequence Listing Diskette; Transmittal Letter for Diskette of Sequence Listing (1 sheet); Certificate of Express Mailing (1 sheet); and Return Postcard are being deposited by me with the United States Postal Service "Express Mail Post Office to Addressee" service, Mailing Label No. **EL 263 573 597 US**, under 37 CFR 1.10 on the date indicated below and is addressed to the Assistant Commissioner for Patents, Box PCT, Washington, D.C. 20231.

Date: **03 December 1999**

Name: **Deise K. Timas**

Signature: *Deise K. Timas*